

PARTS MANUAL

Ariens

2.7 HP.

COMPACT SNO-THRO

SERIAL NUMBER

MODEL NUMBER 932001 - 2.7 H.P.
SERIAL NUMBER 000101 & UP

PM-32-77

PRICE \$.50



ARIENS COMPANY

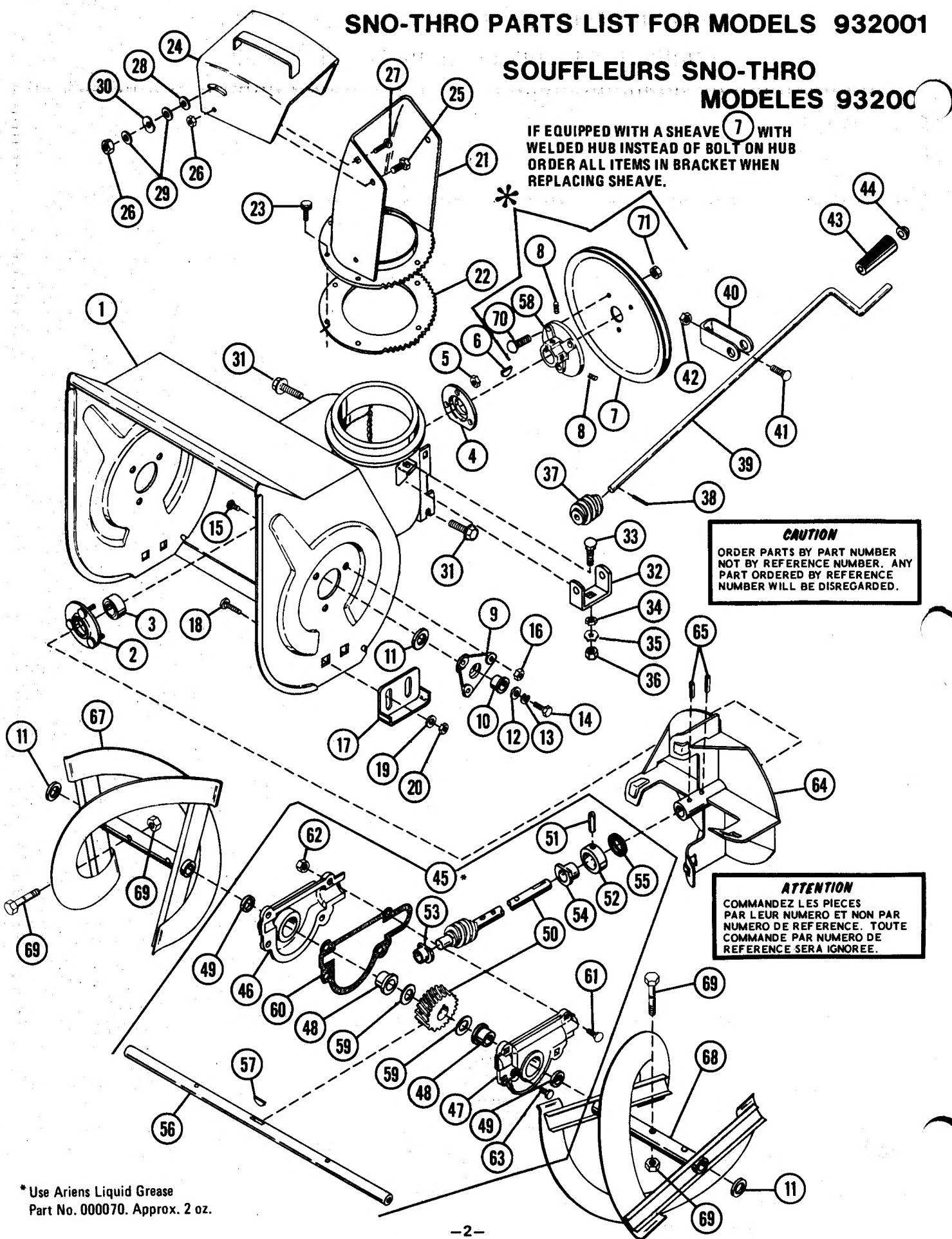


BRILLION, WIS. 54110

SNO-THRO PARTS LIST FOR MODELS 932001

SOUFFLEURS SNO-THRO MODELES 93200

IF EQUIPPED WITH A SHEAVE 7 WITH
WELDED HUB INSTEAD OF BOLT ON HUB
ORDER ALL ITEMS IN BRACKET WHEN
REPLACING SHEAVE.



* Use Ariens Liquid Grease
Part No. 000070. Approx. 2 oz.

SNO-THRO PARTS LIST FOR MODELS 932001

SOUFFLEURS SNO-THRO MODELES 932001

No DE REF.	No DE PIÈCE D'INV.	CODE NO. PART STOCK NO. NO. CODE	QUANTITÉ DESCRIPTION	No DE REF.	No DE PIÈCE D'INV.	CODE NO. PART STOCK NO. NO. CODE	QUANTITÉ DESCRIPTION
REF. PART STOCK NO. NO. CODE				REF. PART STOCK NO. NO. CODE			
NO REQ'D				NO REQ'D			
1	532003	S	BLOWER HOUSING, W/Decals	36	065015	M	NUT, Hex, 5/16-18
2	010142	M	BEARING FLANGE	37	022110	M	WORM GEAR
3	054063	F	BEARING, Radial	38	058034	M	ROLL PIN, 1/8 x 3/4
4	003017	M	BEARING FLANGE	39	022081	S	CHUTE CONTRDL CRANK
5	065040	M	LOCKNUT	40	532004	M	BRACKET, W/Decal
6	066001	M	KEY, Woodruff, SAE 11	41	062001	M	CARRIAGE 8DLT, 1/4-20 x 1-1/4
7	073080	M	SHEAVE	42	065040	M	LOCKNUT, 1/4-20
8	060005	M	SET SCREW	43	075039	M	GRIP
9	032044	M	SUPPORT, Bearing	44	010198	M	CAP
10	055113	F	FLANGED BUSHING	45	532002	M	GEAR CASE ASSEMBLY
11	064009	M	WASHER, 3/4 STD.	46	032032	S	GEAR CASE, Right Half
12	064128	M	WASHER	47	032033	S	GEAR CASE, Left Half
13	063003	M	LOCKWASHER 5/16 STD.	48	055102	F	FLANGED BUSHING
14	059002	M	CAP SCREW, 5/16-18 x 5/8, GR 2	49	056043	F	SEAL
15	070011	M	RIBBED NECK BOLT 1/4-20 x 5/8	50	532001	M	FAN SHAFT & WORM GEAR
16	065056	M	FLANGED WHIZ LOCKNUT 1/4-20	51	058003	M	ROLL PIN, 3/16 x 1-1/4
17	010165	F	RUNNER	52	032035	S	THRUST COLLAR
18	062010	M	CARRIAGE BOLT, 3/8-16 x 3/4	53	055111	F	FLANGED BUSHING
19	064002	M	WASHER, 5/16 STD.	54	055112	F	FLANGED BUSHING
20	065039	M	LOCKNUT, 3/8-16	55	056058	F	"O" RING
21	022159	S	CHUTE, Discharge	56	032036	S	RAKE SHAFT
22	022160	S	GEAR, Lower Collar	57	066014	M	KEY, Woodruff, SAE 61
23	074034	M	TAPPIE	58	002862	M	HUB
24	522006	S	DEFLECTOR CHUTE W/Decal	59	064161	M	WASHER
25	059039	M	CAP SCREW, 5/16-18 x 1/2, GR 2	60	032038	F	GASKET
26	065042	M	LOCKNUT, 5/16-18	61	062012	M	CARRIAGE 8OLT, 1/4-20 x 3/4
27	062034	M	CARRIAGE 8OLT, 5/16-18 x 3/4	62	065056	M	FLANGED WHIZLOCK NUT
28	064168	M	WASHER, Plastic 5/16	63	070010	M	FLANGE WHIZLOCK SCREW 3/8-16 x 1/2
29	064123	M	WASHER, 5/16 STD	64	032040	M	FAN
30	013202	M	WAVE WASHER	65	058007	M	ROLL PIN, 1/4 x 1-1/4
31	070009	M	FLANGE WHIZLOCK SCREW 5/16-18 x 1/2	66	064009	M	WASHER, 3/4 STD.
32	022123	S	WORM CLEVIS	67	032041	S	RAKE, Right
33	062011	M	CARRIAGE BOLT, 5/16-18 x 3/4	68	032042	S	RAKE, Left
34	063032	M	LOCKWASHER	69	532005	F	SHEAR BOLT W/Nut
35	063023	M	LOCKWASHER	70	070053	M	RIBBED NECK 8OLT
				71	065078	M	FLANGE WHIZLOCK NUT

* If equipped with a sheave 7 with welded hub instead of bolt on hub, order all items in bracket when replacing sheave.

SUGGESTED PARTS STOCKING CODE

F - FAST S - SLOW
M - MEDIUM O - CUSTOMER ORDER ONLY

NOTE: DECALS SEE PAGE 8.

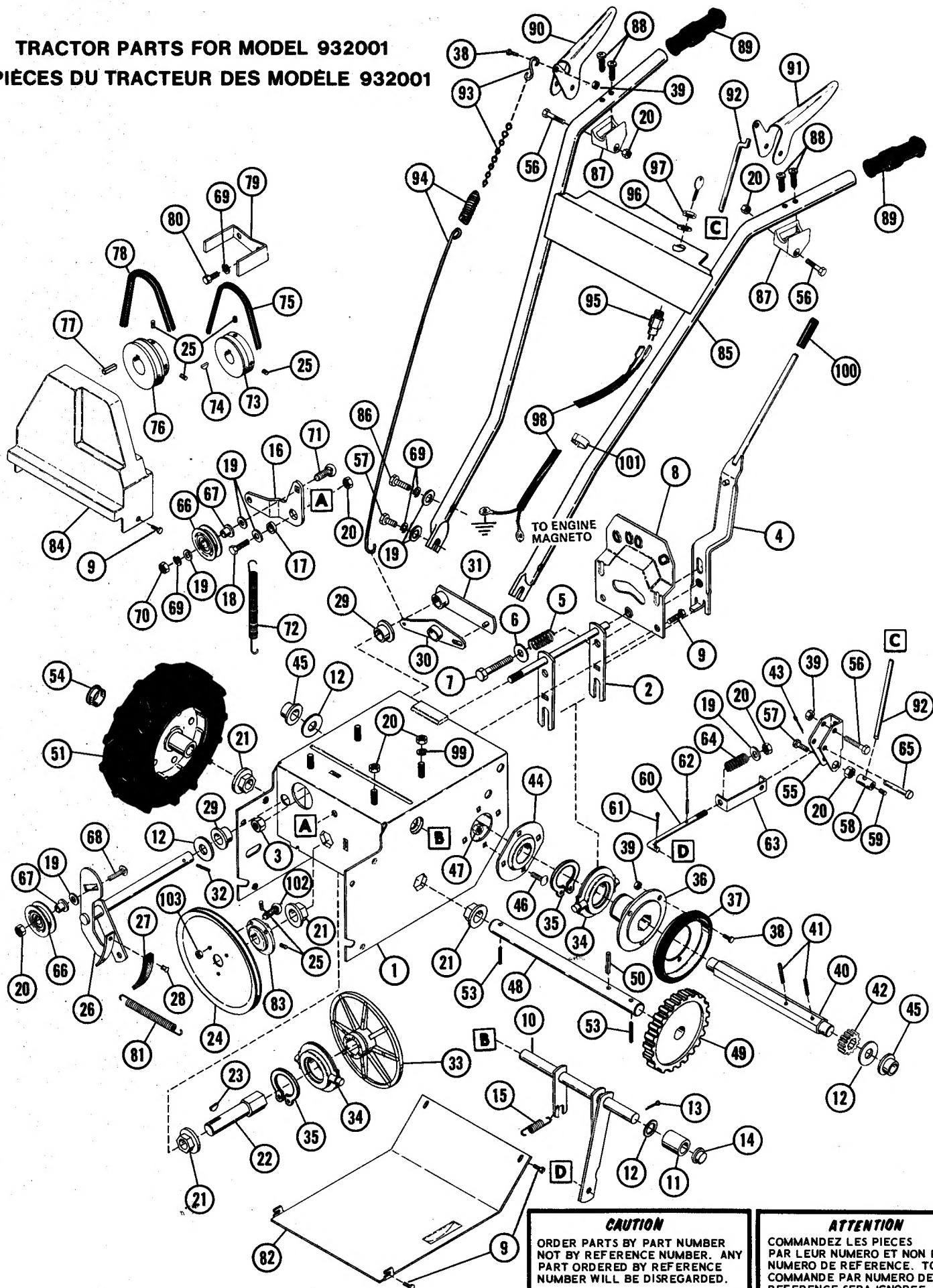
CODE SUGGÉRÉ D'INVENTAIRE DES PIÈCES

F - FAST (rapide) S - SLOW (lent)
M - MEDIUM (moyen) O - Commande du client seulement

NOTE: DÉCALQUES (voir p. 8.)

TRACTOR PARTS FOR MODEL 932001

PIÈCES DU TRACTEUR DES MODÈLE 932001



CAUTION

ORDER PARTS BY PART NUMBER
NOT BY REFERENCE NUMBER. ANY
PART ORDERED BY REFERENCE
NUMBER WILL BE DISREGARDED.

ATTENTION

COMMANDEZ LES PIÈCES
PAR LEUR NUMÉRO ET NON PAR
NUMÉRO DE RÉFÉRENCE. TOUTE
COMMANDE PAR NUMÉRO DE
RÉFÉRENCE SERA IGNORÉE.

TRACTOR PARTS FOR MODEL 932001
PIÈCES DU TRACTEUR DES MODÈLE 932001

No DE REF.	No DE PIÈCE	CODE D'INV.	QUANTITÉ	No DE REF.	No DE PIÈCE	CODE D'INV.	QUANTITÉ		
REF. PART NO. NO.	STOCK COOE	DESCRIPTION	NO. REQ'D.	REF. PART NO. NO.	STOCK CODE	DESCRIPTION	NO. REQ'D.		
1	032001	O	TRACTOR FRAME	1	56	059062	M	CAP SCREW, 1/4-20 x 1-3/4, GR 2	3
2	032002	S	SHIFTING FORK	1	57	059022	M	CAP SCREW, 5/16-18 x 3/4 GR 2	3
3	065039	M	LOCKNUT 3/8-16	1	58	022135	S	ROD ADAPTER	1
4	032003	S	SHIFT HANDLE	1	59	060012	M	SETSCREW 5/16-18 x 3/8	1
5	083090	M	SPRING	1	60	032027	M	ROO, Traction Clutch	1
6	064123	M	WASHER, 5/16 STD	1	61	067020	M	HAIR PIN, 3/32 x 1-3/16	1
7	059045	M	CAP SCREW, 5/16-18 x 1-1/2 GR 2	1	62	058035	M	ROLL PIN, 1/8 x 1/2	1
8	032004	S	QUADRANT	1	63	032028	S	STRAP	1
9	070012	M	FLANGE WHIZLOCK SCREW 1/4-20 x 3/8	8	64	083091	M	BRAKE SPRING	1
10	032005	S	CLUTCH FORK	1	65	002813	M	CLEVIS PIN	1
11	031053	S	SPACER	1	66	012132	M	IDLER	2
12	064003	M	WASHER, 1/2 STD	4	67	012131	M	BEARING SPACER	2
13	067004	M	PIN, Cotter, 1/8 x 1	1	68	062022	M	CARRIAGE BOLT, 5/16-18 x 1-3/8	1
14	012086	F	CAP	1	69	063003	M	LOCKWASHER 5/16 STD	6
15	083141	M	SPRING, Extension	1	70	065015	M	NUT 5/16-18	1
16	032006	S	LEADER ARM	1	71	062048	M	CARRIAGE BOLT 5/16-18 x 1-1/4	1
17	010358	M	SPACER BUSHING	1	72	083172	M	SPRING, Extension	1
18	059002	M	CAP SCREW, 5/16-18 x 5/8 GR 2	1	73	032018	S	SHEAVE, Camshaft	1
19	064002	M	WASHER, 5/16, STD	9	74	066015	M	KEY, Woodruff, SAE 5	1
20	065042	M	LOCKNUT, 5/16-18	8	75	072106	F	VEE BELT	1
21	055109	F	FLANGED BUSHING	4	76	032019	S	SHEAVE, Engine	1
22	032007	M	HEX SHAFT	1	77	066013	M	KEY, Straight, 3/16 x 3/16 x 1	1
23	066003	M	KEY, Woodruff, SAE 9	1	78	072107	F	VEE BELT	1
24	073074	M	SHEAVE	1	79	032020	M	BELT FINGER	1
25	060014	M	SETSCREW 1/4-20 x 1/4	6	80	059053	M	CAP SCREW, 5/16-18 x 1/2 GR 2	1
26	632001	S	BRAKE CLUTCH ARM W/Lining	1	81	083171	M	SPRING, Extension	1
27	022178	S	BRAKE LINING	1	82	032021	S	COVER, Bottom	1
28	068062	S	RIVET	2	83	032050	S	HUB	1
29	055037	F	FLANGE BUSHING	2	84	032022	M	BELT COVER	1
30	032009	S	LEVER	1	85	532006	S	HANOLEBAR W/Ocal	1
31	032010	S	LEVER CLUTCH	1	86	059069	M	CAP SCREW, 5/16-18 x 1-1/4, GR 2	2
32	058026	M	ROLL PIN, 5/32 x 7/8	1	87	022129	S	HANOLE PIVOT	2
33	032011	M	FRICITION PLATE	1	88	074039	M	SCREW, Self Tapping	4
34	032012	M	BEARING FLANGE	2	89	075081	M	GRIP	2
35	057043	F	SNAP RING	2	90	532008	S	HANOLE W/Ocal	1
36	032029	S	FRICITION WHEEL HUB	1	91	532007	S	HANOLE W/Decal	1
37	022013	F	FRICITION DISC	1	92	032026	M	ROO, Clutch	1
38	059028	M	CAP SCREW, 1/4-20 x 1/2	4	93	002042	M	CHAIN & CONNECTOR	1
39	065040	M	LOCKNUT, 1/4-20	7	94	083008	M	CLUTCH SPRING	1
40	032013	M	HEX SHAFT	1	95	011134	M	KEY SWITCH	1
41	058009	M	ROLL PIN, 1/8 x 1	2	96	063019	M	LOCKWASHER	1
42	022011	S	PINION	1	97	065075	M	NUT, Special	1
43	067001	M	PIN, Cotter, 3/32 x 3/4	1	98	022161	S	WIRE, Shorting	1
44	032014	M	BUSHING FLANGE	2	99	063018	M	LOCKWASHER	1
45	055110	F	FLANGE BUSHING	2	100	075086	M	GRIP, Speed Control	1
46	062049	M	CARRIAGE BOLT 10-24 x 3/8	8	101	069099	M	CLAMP, 2 Wire	1
47	065094	M	TWIN WHIZLOCK NUT 10-24	8	102	070053	M	RIBBED NECK BOLT, 5/16-18 x 3/4	3
48	032015	S	AXLE SHAFT	1	103	065078	M	LOCKNUT, 5/16-18	3
49	032016	S	GEAR	1				ENGINE, Tecumseh HSK35-45503M	1
50	058065	M	GROOVE PIN, 3/16 x 1-1/4	1					
51	071121	S	WHEEL ASSEMBLY, Right	1					
52	071122	S	WHEEL ASSEMBLY, Left	1					
53	058064	M	ROLL PIN, 7/32 x 1-1/4	2					
54	075085	M	HOLE PLUG	2					
55	032017	S	BRACKET	1					

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NOTE: DECALS SEE PAGE 8.

NOTE: DÉCALQUES (voir p. 8.)

MAINTENANCE

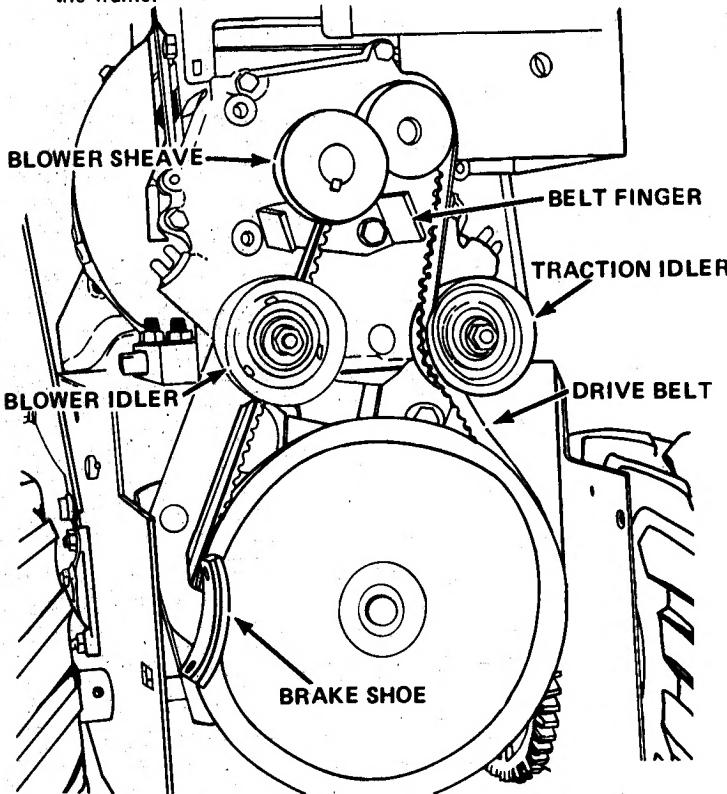
BELT REPLACEMENT

CAUTION:

SINCE REPLACING THE BELTS WILL INVOLVE TURNING THE ENGINE OVER WITH THE STARTER, THE SPARK PLUG WIRE MUST BE DISCONNECTED DURING THIS PROCEDURE.

The drive belt and the attachment drive belt are both accessible by tipping apart the blower housing and tractor as follows:

1. Remove the nut and washer holding the worm clevis on the bracket. Remove the chute crank by sliding it back in the bracket and out of the way.
2. Remove the two flanged whizlock screws securing the belt guard to the tractor. Remove the belt guard.
3. Remove the top cap screws and loosen the lower cap screws on each side that secures the blower housing to the frame. As the blower housing and tractor are tipped apart, roll the belt off the engine sheave between the sheave and belt finger. This can be easily done by pulling the recoil starter rope to rotate the engine sheave. With the belt disconnected, the blower housing may then be tipped from the frame.



REPLACEMENT OF THE BLOWER DRIVE BELT

The blower drive belt remains on the sheave on the blower housing. Place the new belt on the sheave. Hold it in position on the sheave as the blower is tipped into position on the tractor. Be sure the brake shoe seats on the belt as the units are tipped together. Once assembled, roll the blower belt on to the engine sheave and position the idler on the outside of the belt.

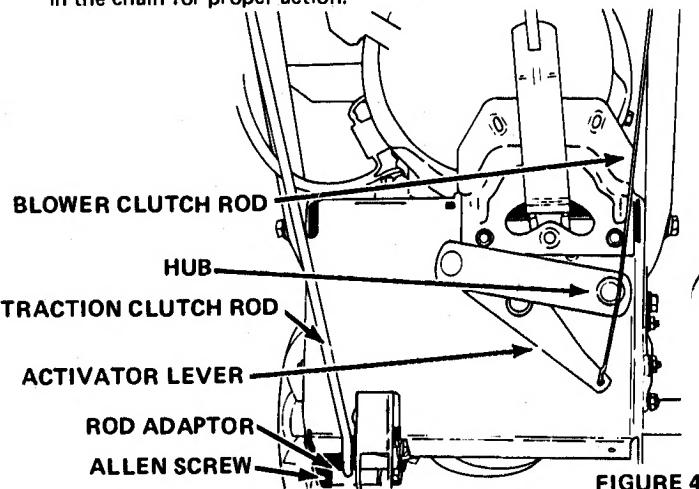
REPLACEMENT OF TRACTION DRIVE BELT

With the blower and tractor tipped apart, spring the idler from the drive belt and remove from around the lower sheave and engine sheave. Install the new belt on the engine sheave and lower sheave. Then spring the idle back into position on the outside of the drive belt.

With the belts in position and the idler in place, check the belt alignment. The engine sheave and the tractor sheave must align with one another. If the sheaves are not properly aligned, loosen the setscrews on the engine sheave and align the sheaves. Retighten the setscrews.

BLOWER CLUTCH ADJUSTMENT

The blower clutch is adjusted by connecting the spring on the clutch rod into the proper link on the clutch handle chain. Properly adjusted, the spring should be slightly extended with the clutch handle down. This should occur without the attachment activator lever touching the hub. If the activator lever touches the hub, the blower belt idler pulley must be adjusted in the idler arm. Loosen the cap screw on the idler and move the idler IN TOWARD the belt. Readjust the spring in the chain for proper action.



DRIVE DISC ADJUSTMENT

The only adjustment for the drive disc is made by adjusting the length of the traction clutch rod. With the clutch handle in the full upright position and the clutch bracket down against the stop, tighten the allen screw in the rod adapter. To check the adjustment, push the Sno-Thro with the clutch handle up; it should roll freely. While pushing the Sno-Thro, slowly lower the clutch handle. The wheels should start to drag with the clutch handle approximately halfway down to the handlebar grip when properly set. If necessary, adjust the clutch rod in the rod adapter to secure this adjustment.

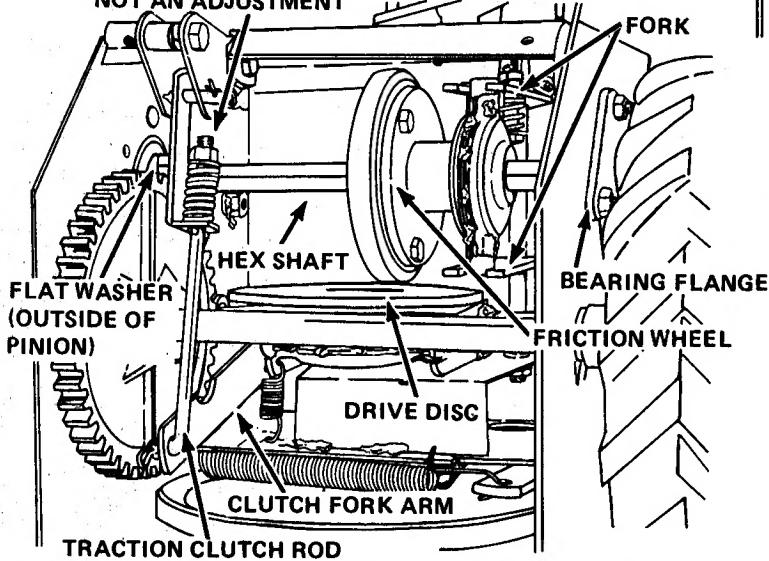
NOTE: The hex nut on the clutch link just above the spring on the clutch linkage is NOT an adjustment. This nut should be tightened just enough to hold the spring snug and prevent the spring from rattling when traction clutch is released.

REPLACEMENT OF FRICTION WHEEL

1. Tip the machine up on the blower housing and brace securely. Remove two cap screws at back of frame securing the bottom cover and loosen two cap screws at front frame sides and remove the cover.
2. Remove the four whizlock nuts holding the bearing flange on the right hand side of the frame. Remove the bearing flange and carriage bolts.

3. Remove the hairpin cotter from the traction clutch rod. Pull this rod from the clutch fork arm and tip it up and out of the way.
4. Slide the friction wheel assembly and hex shaft to the right until the left end of the hex shaft comes free of the left bearing. Then slip the whole assembly back to the right and pull it forward out of the frame.
5. With the friction wheel assembly out of the frame, the three cap screws holding the friction wheel to the hub may be removed and the friction wheel removed.
6. Position a new friction wheel on the hub and secure with the three cap screws. Tighten securely.
7. Slip the right end of the complete friction wheel assembly and hex shaft into the hole in the right side of the frame. Position the friction wheel hub in the forks. Slide the hex shaft to the left and into the left bearing being sure flat washer is in position. See that the pinion gear meshes with the large gear.
8. Replace the bearing flange on the right side of the frame and secure with the four carriage bolts and nuts. Reconnect the traction clutch rod in the clutch fork arm and secure with a hairpin cotter. Readjust the drive disc as described in the paragraph on page 6.

NOT AN ADJUSTMENT



LUBRICATION

ENGINE

Fill the crankcase with Ariens Sno-Thro oil 5W-20 when using the Sno-Thro.

Use Ariens Gard-N-Yard oil MS classification SAE-30 when using lawn attachments.

Refer to engine owners manual for appropriate crankcase oil substitutes.

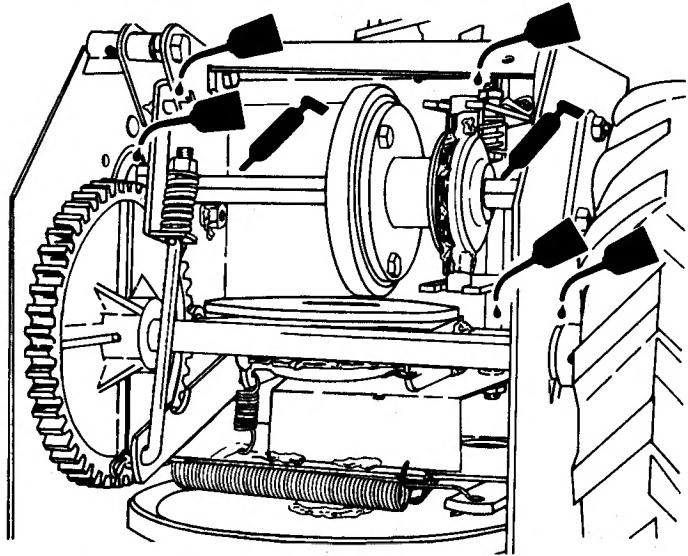
Fill the fuel tank with fresh, clean, unleaded automotive type gasoline. (Leaded "regular" grade gasoline is an acceptable substitute.)

NOTE: For detailed instructions on engine refer to manufacturer's booklet packed with the machine.

TRACTOR DRIVE

At start of season, grease gears, hex and axle shaft as indicated in the figure below. Use Ariens Moly Lithium grease.

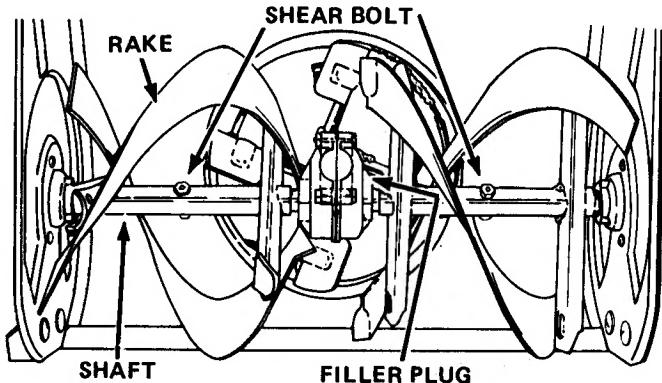
Put two or three drops of light oil on shift lever and other linkage points. **CAUTION: Do not allow grease or oil to come in contact with friction wheel, drive disc or belts.**



SNO-THRO UNIT

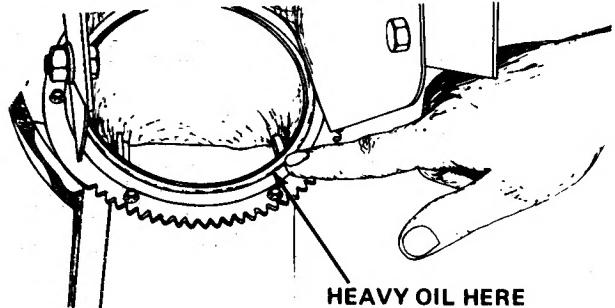
Check the lubrication in the blower gear case by removing the filler plug on the side of the gear case just above the left hand auger shaft. Lubricant should be even with the hole with the machine sitting level.

To Drain Gear Case: Remove fill plug. Tip up on blower housing and allow oil to drain. Tip unit back on wheels. Fill gear case with Ariens Liquid Grease (Part No. 000070).



Oil rake shaft periodically or each time a shear bolt is replaced. At the end of the season, remove shear bolts, oil rake shaft through shear bolt holes, turn rakes on shaft several times and replace shear bolts.

Oil the discharge chute with several drops of heavy oil.



Ariens

ARIENS COMPANY BRILLION, WISCONSIN U.S.A.

78061



CLUTCH
LEVER
DEPRESS
FOR
ATTACHMENT
DRIVE

78455

CLUTCH
LEVER
DEPRESS
FOR
WHEEL
DRIVE

78324

WARNING

ROTATING PARTS
STOP ENGINE AND REMOVE SPARK
PLUG IGNITION WIRE BEFORE
REMOVING OBSTRUCTIONS

78323

27HP

78458

DISCHARGE
RIGHT LEFT

78325

WARNING

ROTATING PARTS
KEEP CLEAR OF COLLECTOR
RAKES WHILE ENGINE
IS RUNNING

78327

CHOKE-THROTTLE DECALS
AVAILABLE FROM TECUMSEH

OFF 1/2 3/4 FULL
CHOKE

ATTENTION

WHEN USING SUMMER ATTACHMENTS
REMOVE HEATER BOX AND INSTALL
AIR CLEANER

78189

SAFETY INSTRUCTIONS

AVOID POTENTIAL HAZARDS

1. READ OWNERS MANUAL FOR OPERATING AND SAFETY INSTRUCTIONS.
2. OBSERVE ALL LABELS AND INSTRUCTIONS.
3. DO NOT DEFECT MULCHLOCK SYSTEM. IT IS FOR TORN PROTECTION.
4. STOP ENGINE AND WAIT FOR ALL MOVEMENT TO STOP BEFORE RECHOCKING OR SERVICING MACHINE.
5. NEVER ALLOW CHILDREN TO OPERATE THE EQUIPMENT. NEVER ALLOW HORSES TO OPERATE THE EQUIPMENT WITHOUT PROPER INSTRUCTION.
6. KEEP THE AREA OF OPERATION CLEAR OF ALL PERSONS, ESPECIALLY CHILDREN.
7. NEVER DISCHARGE IN FRONT OF Bystanders OR ALLOW ANYONE IN FRONT OR BEHIND.
8. KEEP MACHINE PROPERLY MAINTAINED AND SERVICED WITH ALL SLEEVES, CORROS, AND PROTECTIVE DEVICES IN PLACE.

78416

OFF

KEY
SWITCH

OPERATING INSTRUCTIONS

REFER TO OWNERS MANUAL
TO START TURN KEY SWITCH ON AND PULL STARTER
TO STOP TURN KEY SWITCH TO OFF AND REMOVE KEY

78457

SPEED SELECTOR
3 - 2 - 1 - R

78456

120 VOLT A.C.
ELECTRIC STARTER
PUSH TO START

78357
(120V AC STARTER
KIT ONLY)

ENGINE PRIMER
PUSH TO PRIME

78395

Ariens

78174



78345

COMPLIANCE WITH CANADIAN RADIO INTERFERENCE REGULATIONS CERTIFIED
REPLACE SPARK PLUG WITH RESISTOR SPARK PLUG ONLY!
CERTIFIE CONFORME AU REGLEMENT CANADIEN SUR LE BROUILLAGE RADIOELECTRIQUE
REPLACER LA ROUGIE PAR UNE ROUGIE A RESISTANCE SEULEMENT!

78400

A HIGH SPEED IMPELLER ROTATES
INSIDE THIS HOUSING TO THROW
THE SNOW. NEVER REACH OR PUSH
ANY OBJECT INTO THE DISCHARGE
CHUTE WITH THE IMPELLER
ROTATING!